

SHEET NO. 9 9 SHEETS

CONTRACT NO. 66583

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

reinforcement bars. Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

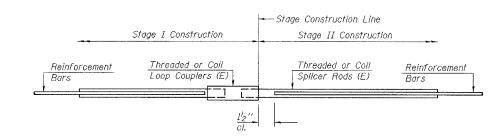
(Tension iii kipə)
Minimum *Pull-out Strength = 1.25 x fs_{dilow} x A_t (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_1 = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

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BAR SPLICER ASSEMBLIES							
Bar Size to be Spliced		Strength Requirements					
	Splicer Rod or Dowel Bar Length	Min. Capacity kips – tension	Min. Pull-Out Strength kips - tension				
#4	1′-8′′	14.7	5.9				
#5	2'-0"	23.0	9.2				
#6	2'-7''	33.1	13.3				
#7	3′-5′′	45.1	18.0				
#8	4'-6''	58.9	23.6				
#9	5′-9′′	75.0	30.0				
#10	7′-3′′	95.0	38.0				
#11	9′-0′′	117.4	46.8				

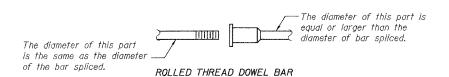
Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

No. Assemblies Location Size Required East Abut. #6 #5 Blockout

ILLINOIS DEPARTMENT OF TRANSPORTATION BAR SPLICER ASSEMBLY DETAILS IL ROUTE 9 OVER MONEY CREEK FAP ROUTE 693 SECTION 22 BR MCLEAN COUNTY STATION 1917-11,38 STRUCTURE NUMBER 057-0076 12/15/05 GRAWN 87 COOMBE-BLOXDORF P.C. 9 Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703



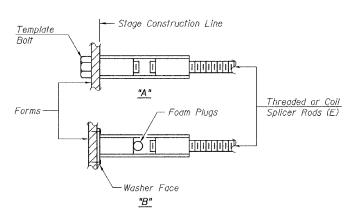
** ONE PIECE

Wire Connector

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

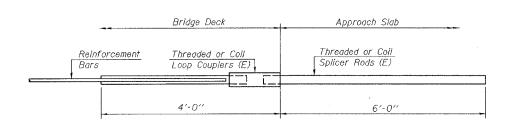
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

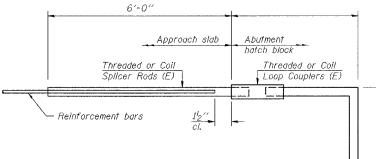
"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Splicer	for :	#5 ba.	r	
Min.	Capacity	= 23.0	kips	- tens	sion	
Min.	Pull-out	Strength	= 9.	2 kips	3 -	tension
No.	Required	=				



FOR PILE BENT ABUTMENTS

	Bar	Spli	cer	for	#5	bar		
Min.	Capacity	= 2	3.0	kip.	s -	tensi	on	
Min.	Pull-out	Strei	ngth	=	9.2	kips	-	tension
No.	Required	=						

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